



Brian McNerney  
Hydrologist  
National Weather Service

Hydrologic Outlook  
April 2004



# Hydrologic Outlook

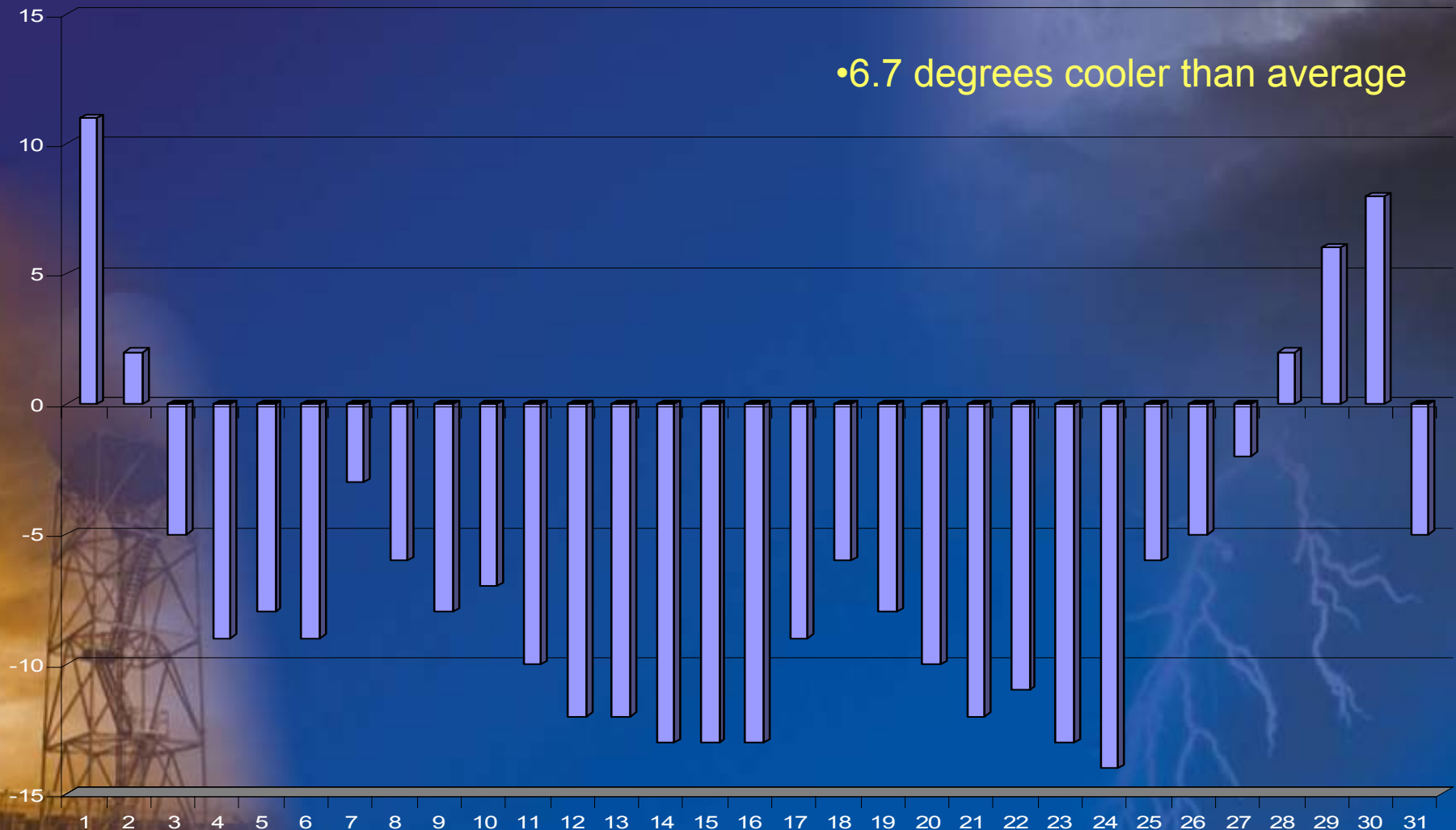
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- Temperature



# January

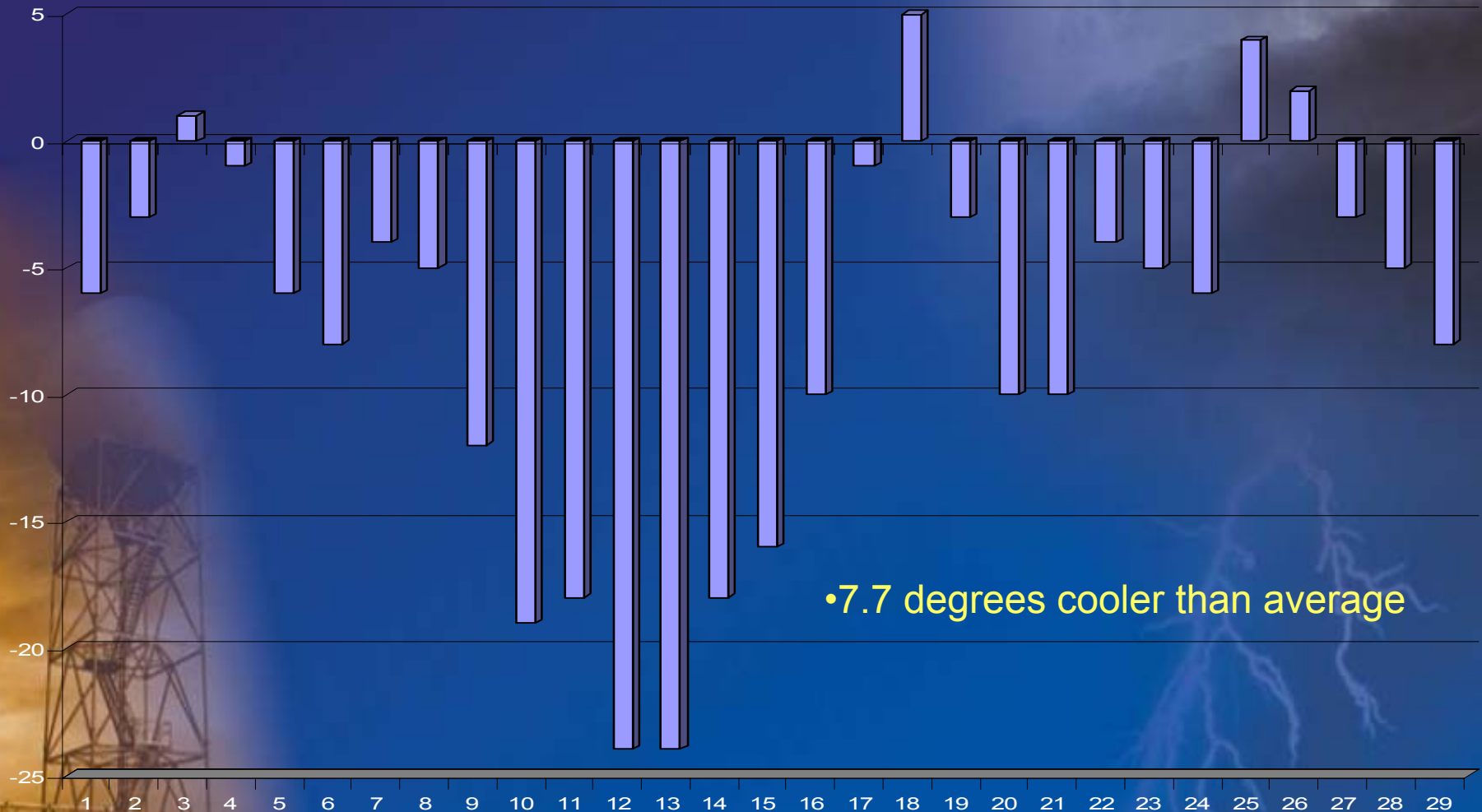
## Salt Lake City Temperature Departure from Normal





# February

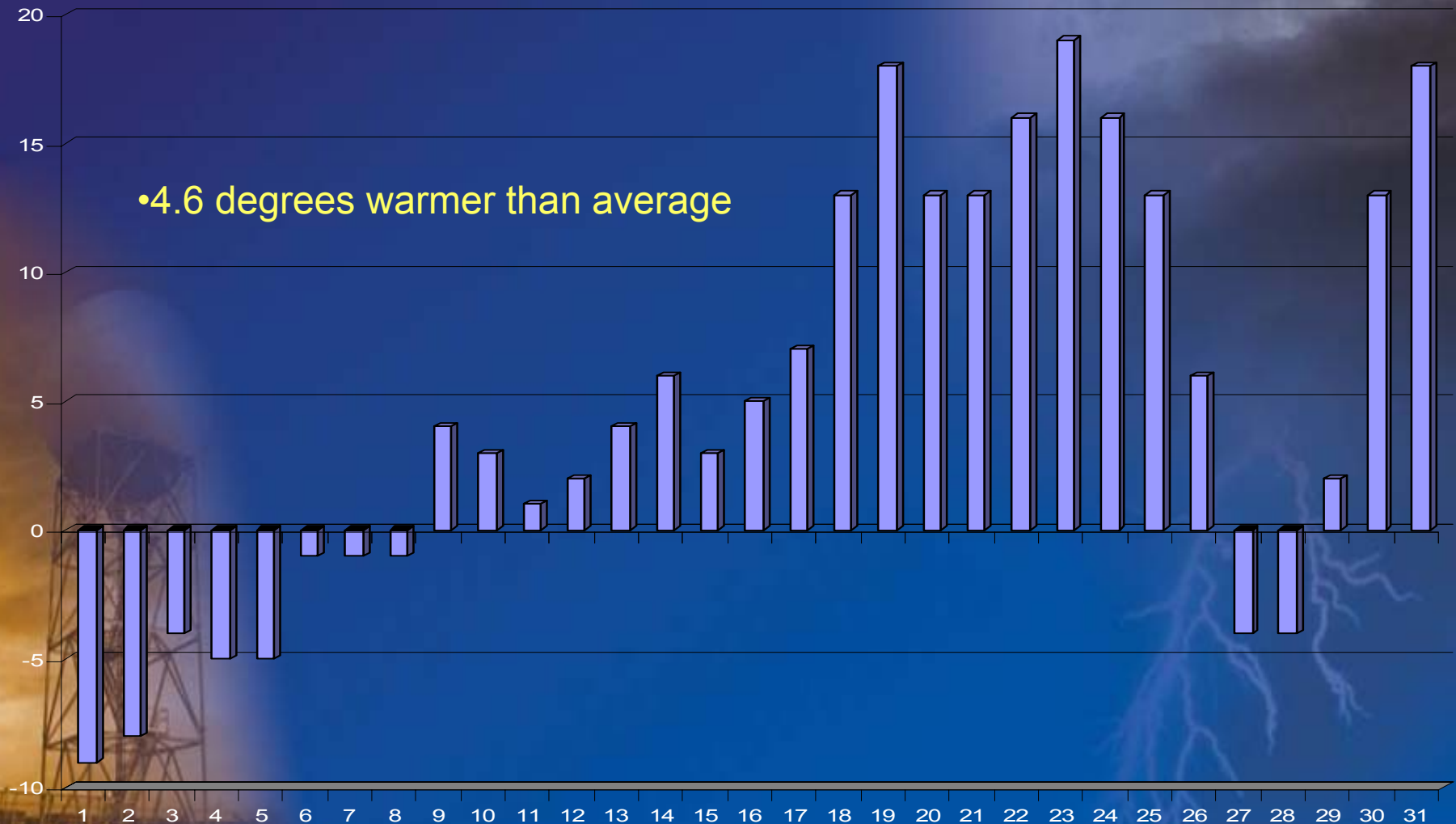
## Salt Lake City Temperature Departure from Normal





# March

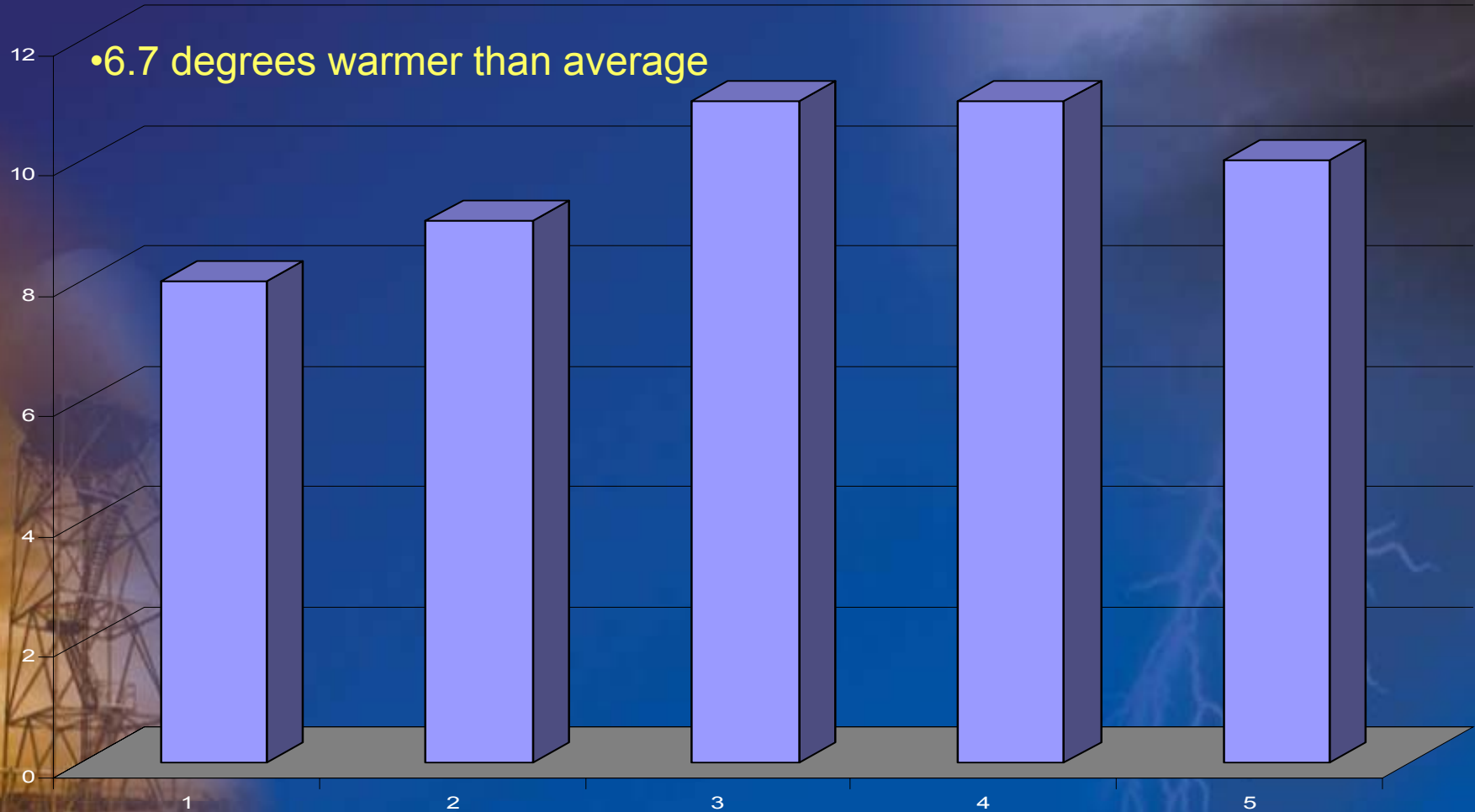
## Salt Lake City Temperature Departure from Normal





# April

## Salt Lake City Temperature Departure from Normal





# Hydrologic Outlook

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- Precipitation



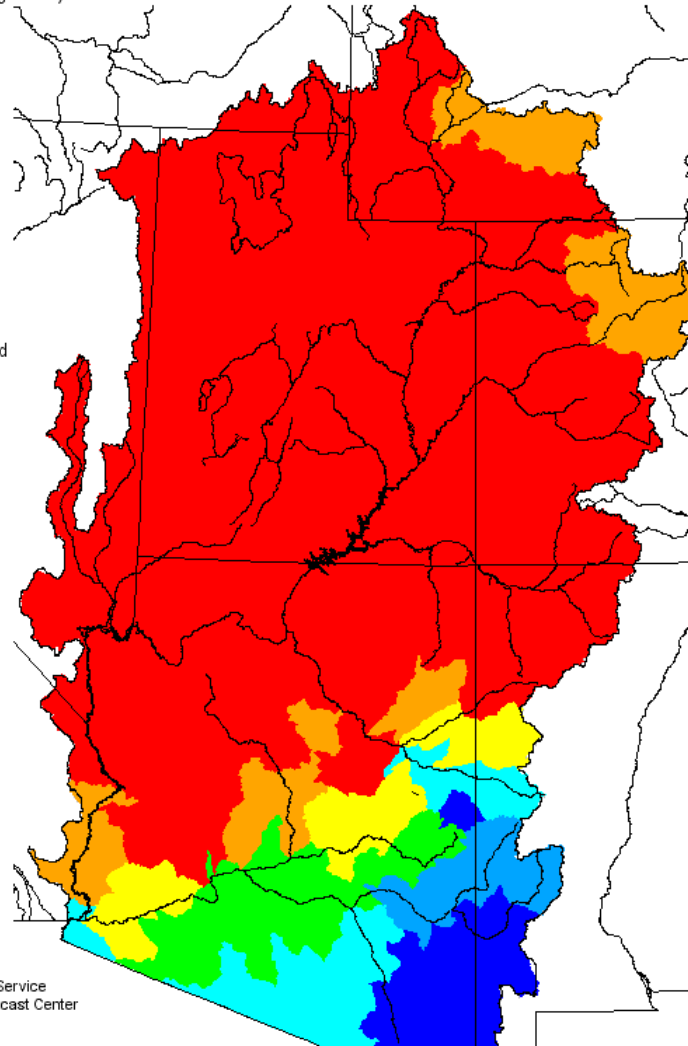
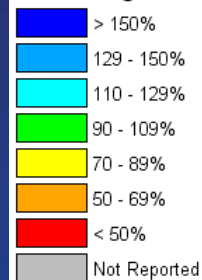


# Precipitation

## Monthly Precipitation for March 2004

(Averaged by Hydrologic Unit)

### % Average



Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)





# Hydrologic Outlook

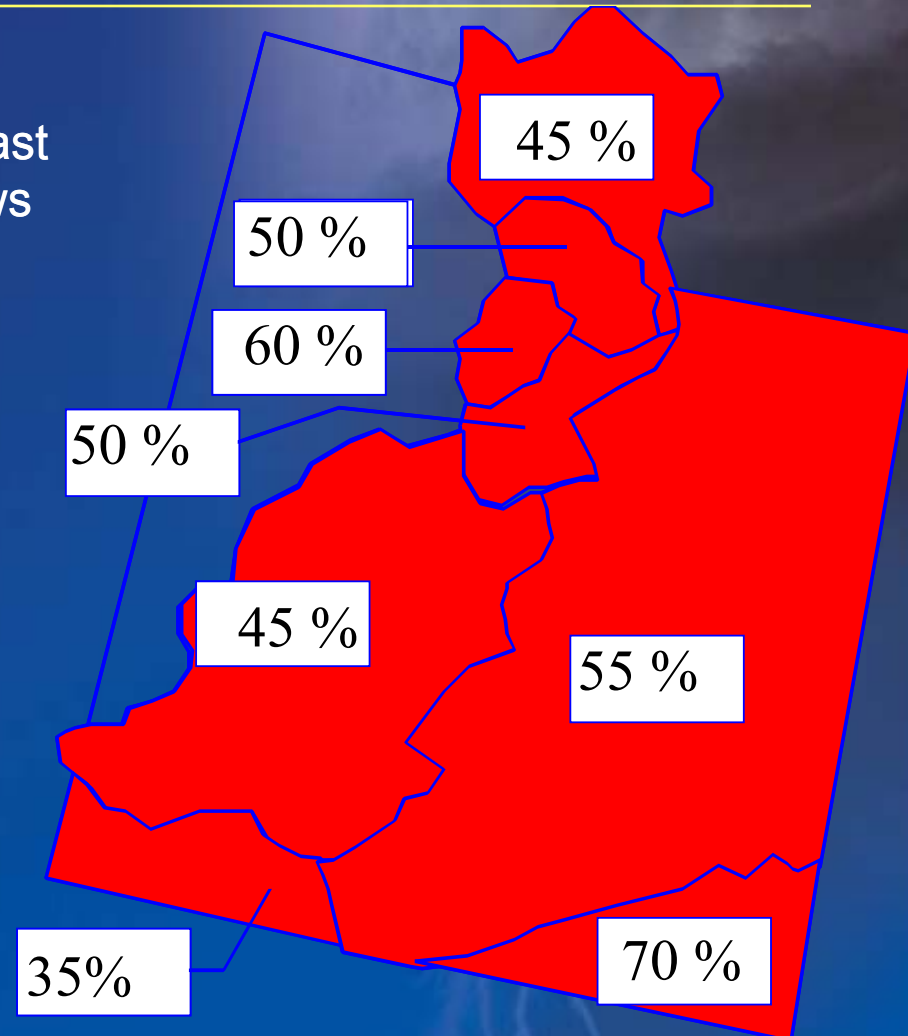
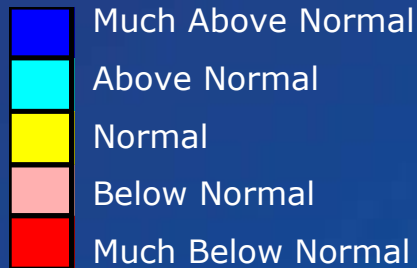
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- Water Supply Forecast



# Forecasted Utah Spring Snowmelt Runoff Volumes

March 11<sup>st</sup> 2004  
April Through July Volume Forecast  
Percent of 30 Year Average Flows  
Utah Area River Basins





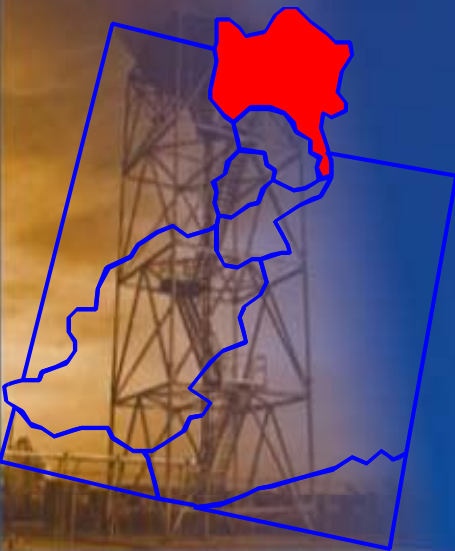
# Forecasted Utah Spring Snowmelt Runoff Volume

April 1<sup>st</sup> 2004

April Through July Volume Forecast  
Percent of 30 Year Average Flows



## Bear River Basin





# Forecasted Utah Spring Snowmelt Runoff Volume

April 1<sup>st</sup>, 2004

April Through July Volume Forecast  
Percent of 30 Year Average Flows



## Weber River Basin

Pineview Res.

59%

Gateway

46%

Ogden River

Lost Creek Res.

57%

East Canyon Res.

55%

Weber River

Rockport Res.

39%

Chalk Creek

31%

Oakley

47%







# Forecasted Utah Spring Snowmelt Runoff Volume

April 1<sup>st</sup>, 2004

April Through July Volume Forecast  
Percent of 30 Year Average Flows

## Six Creeks River Basin





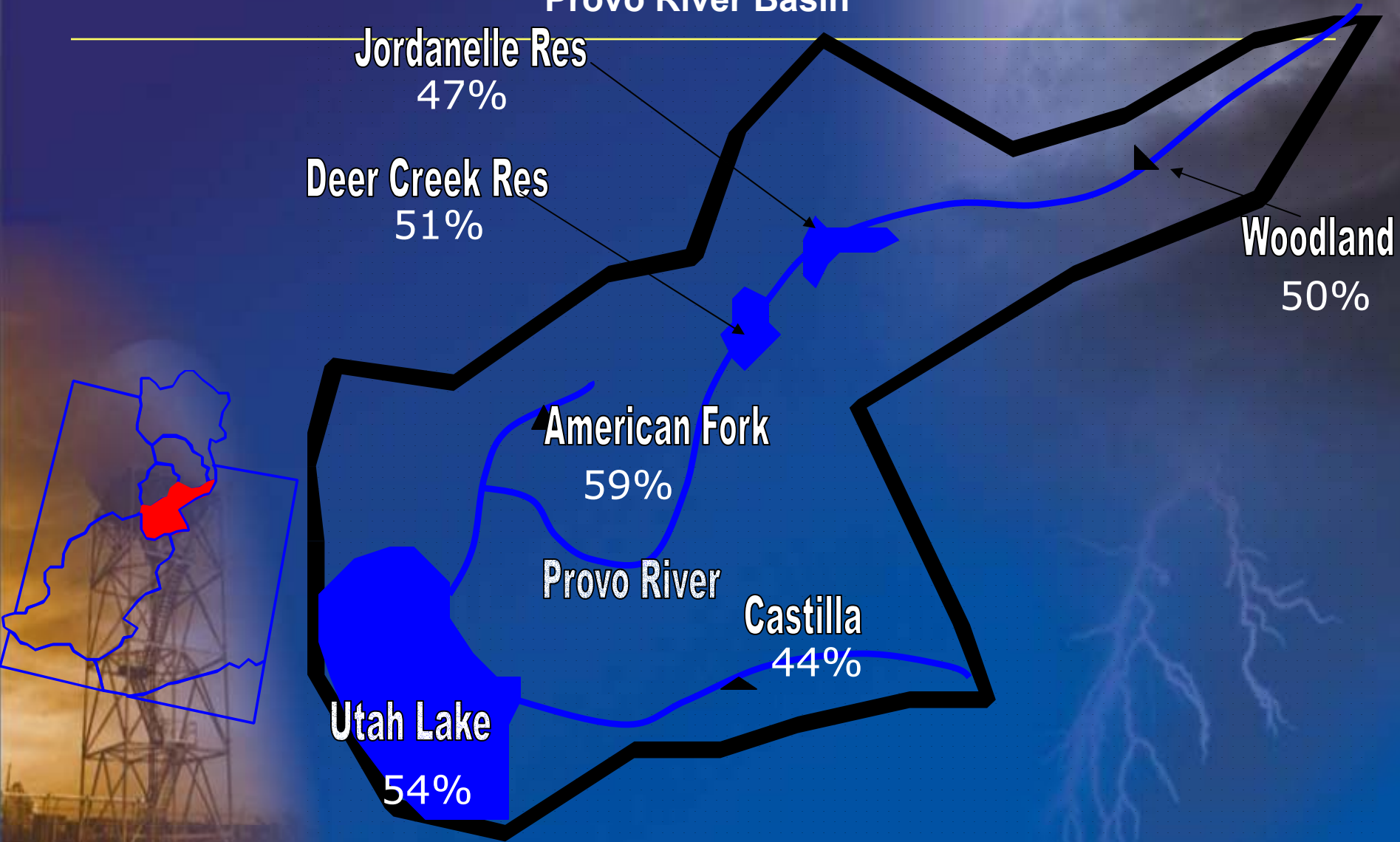
# Forecasted Utah Spring Snowmelt Runoff Volume

April 1<sup>st</sup>, 2004

April Through July Volume Forecast  
Percent of 30 Year Average Flows



## Provo River Basin







# Forecasted Utah Spring Snowmelt Runoff Volume

April 1<sup>st</sup>, 2004

April Through July Volume Forecast  
Percent of 30 Year Average Flows



## Green River Basin

Strawberry Res.

51%

Starvation Res.

50%

Scofield Res.

48%

Upper Stillwater

62%

Tabiona

52%

Red Fleet Res.

68%

Duchesne

53%

Price River

Green River

55%

Lake Powell Res.

42%

Flaming Gorge Res.

69%

Moon Lake

76%

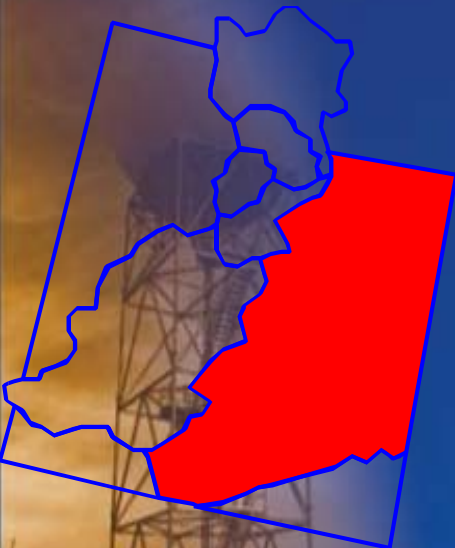
Myton

41%

Randlett

37%

Colorado River





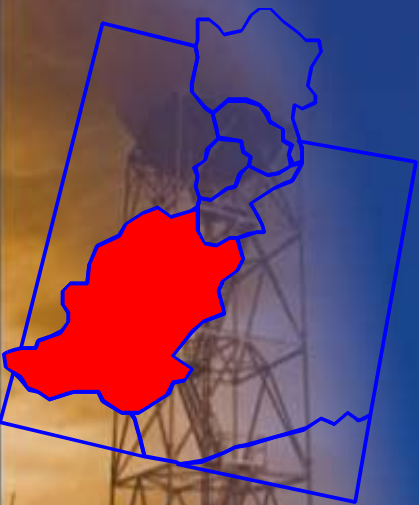
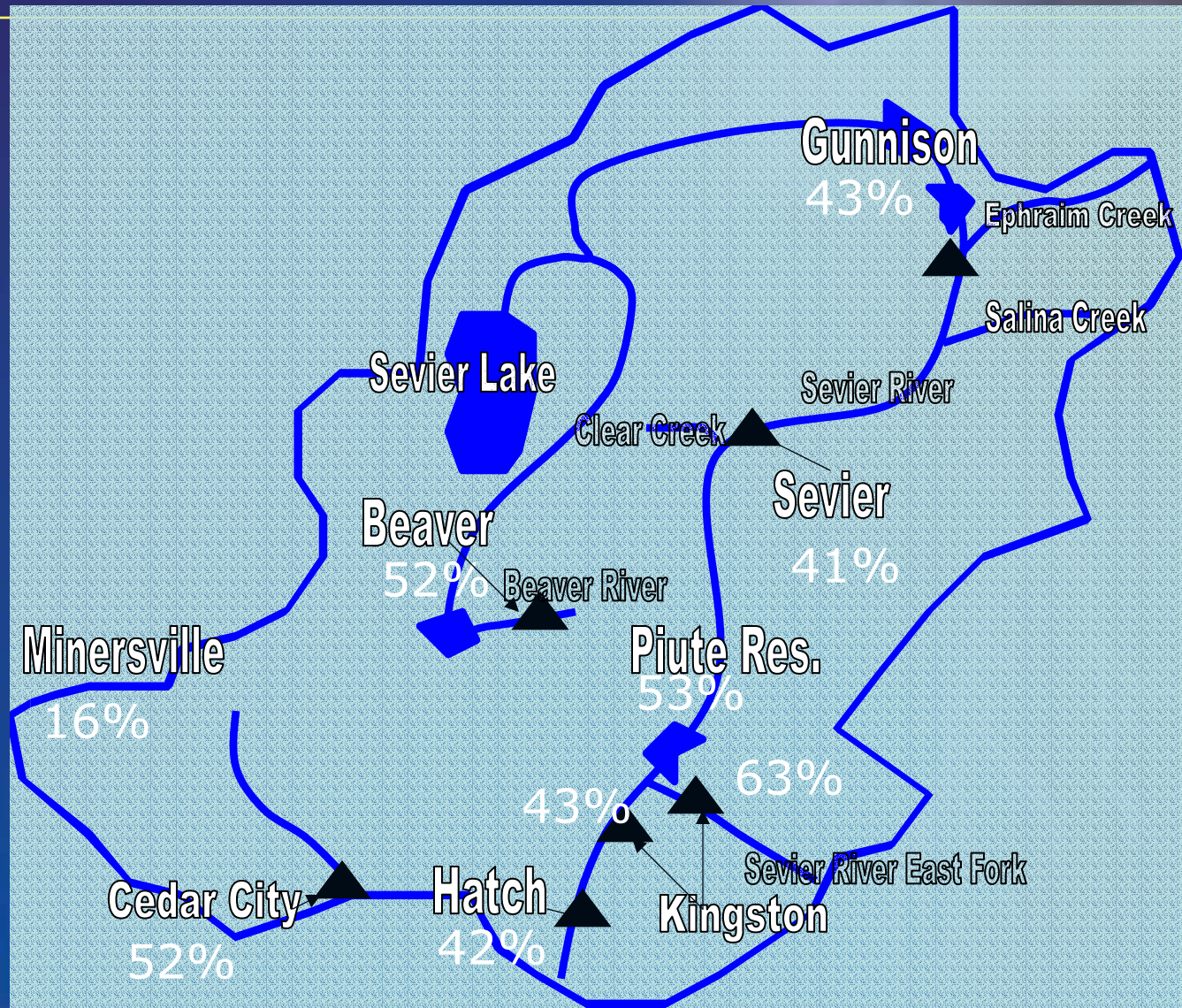


# Forecasted Utah Spring Snowmelt Runoff Volume

April 1<sup>st</sup>, 2004

April Through July Volume Forecast  
Percent of 30 Year Average Flows

## Sevier River Basin



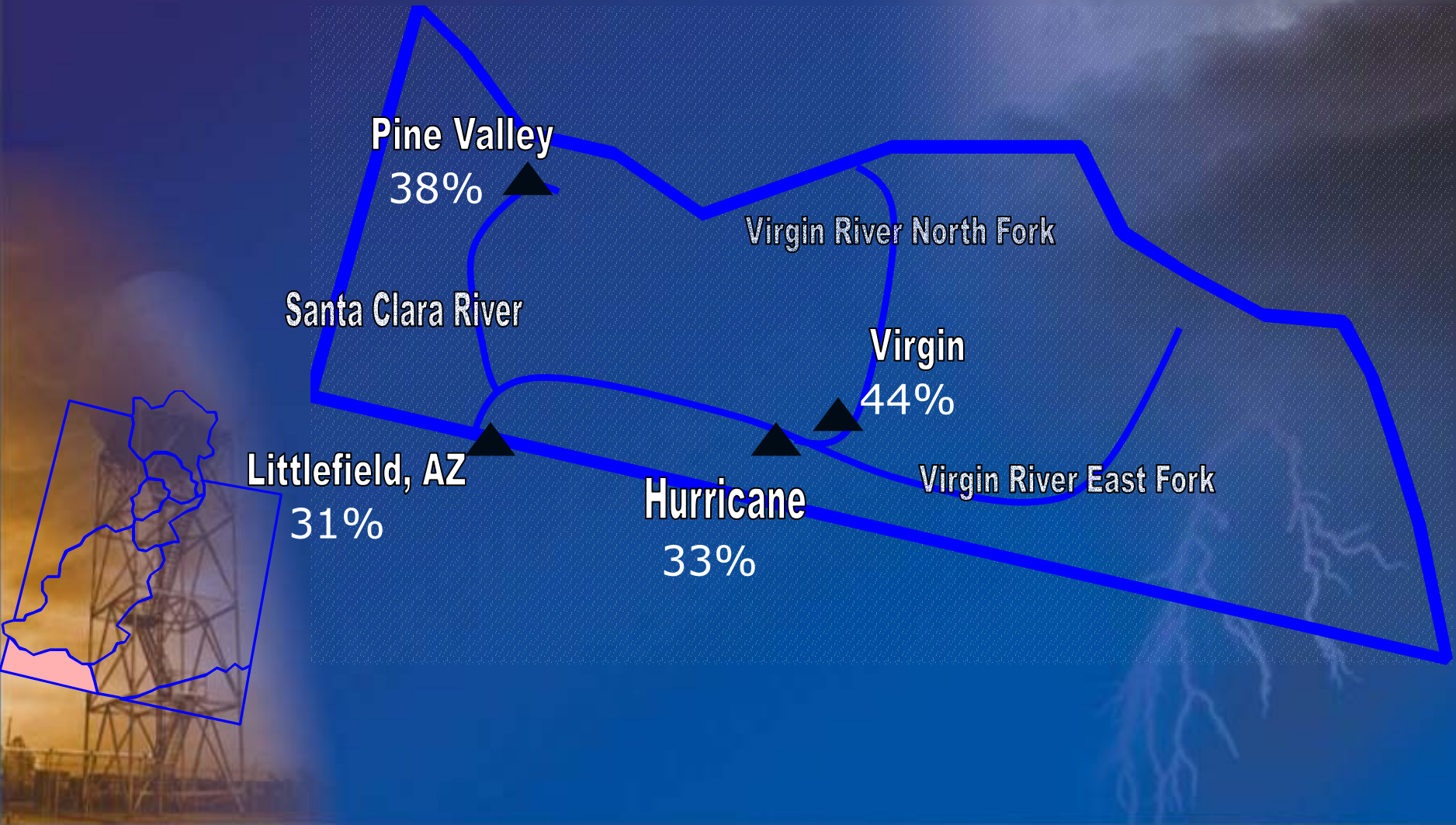


# Forecasted Utah Spring Snowmelt Runoff Volume

April 1<sup>st</sup>, 2004

April Through July Volume Forecast  
Percent of 30 Year Average Flows

## Virgin River Basin







# Hydrologic Outlook

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- Peakflow



# Hydrologic Outlook

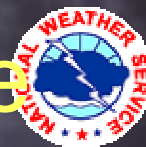
STATION NAME	Historic	Average	Flood*	2003	2003	2004 Forecast Exceedance Probability					Normal time of peak
	Peak	Peak	Flow	Peak	Date	90%	75%	50%	25%	10%	
BEAR - UTAH-WYOMING STATELINE, NR	2,680	1,610	4,400	1,640	5/30	600	700	850	1,200	1,600	5/22 - 6/14
LOGAN - LOGAN, NR, STATE DAM, ABV	1,870	985	2,400	715	5/31	200	350	550	850	950	5/18 - 6/10
BLACKSMITH FORK - HYRUM, NR, UP&L DAM	1,530	490	800	180	5/17	20	100	200	350	450	4/24 - 5/20
WEBER - OAKLEY, NR	4,170	1,625	3,100	1,650	5/30	500	650	850	1,200	1,600	5/24 - 6/16
CHALK CK - COALVILLE	1,420	600	1,900	235	5/19	30	100	200	300	500	5/5 - 5/31
PROVO - WOODLAND, NR	2,530	1,685	3,000	1,990	5/26	700	1,000	1,400	1,800	2,300	5/11 - 6/6
LITTLE COTTONWOOD CK - SALT LAKE CITY, NR	762	470	700	455	5/30	250	350	450	550	650	5/23 - 6/20
BIG COTTONWOOD CK - SALT LAKE CITY, NR	980	430	700	470	5/30	100	150	250	400	550	5/18 - 6/9
MILL CK - SALT LAKE CITY, NR	153	65	150	20	5/30	20	40	55	80	110	5/18 - 6/10
PARLEYS CK - SALT LAKE CITY, NR	605	180	350	50	5/17	20	60	95	140	180	4/23 - 5/22
EMIGRATION CK - SALT LAKE CITY, NR	164	55	175	4	5/10	5	10	20	40	65	4/11 - 5/19
CITY CK - SALT LAKE CITY, NR	322	90	150	25	5/26	10	15	25	45	65	5/12 - 6/1
SEVIER - HATCH	1,430	495	1,200	255	5/26	50	100	250	350	550	5/6 - 6/2



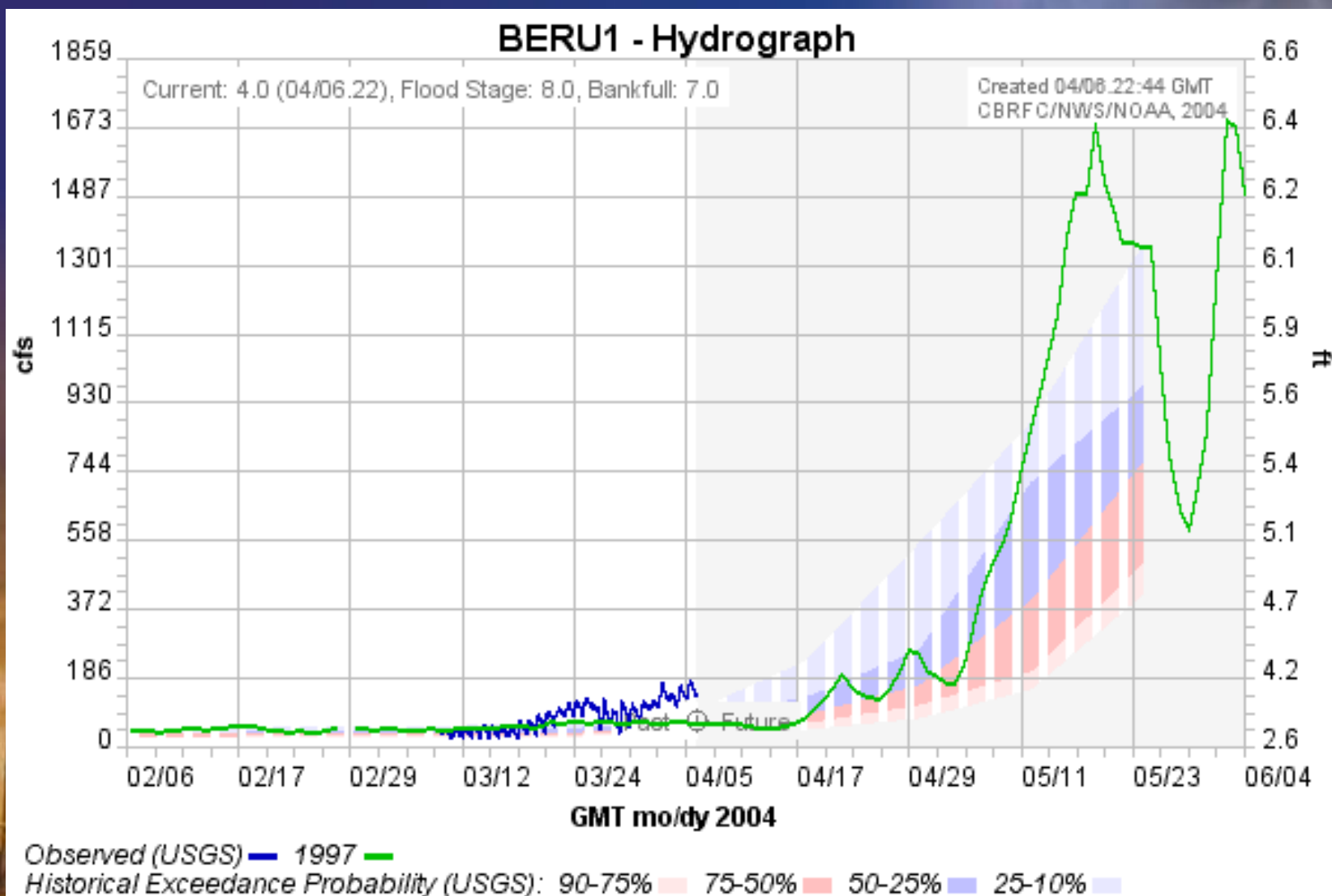
# Hydrologic Outlook

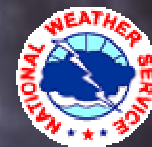
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- Streamflow

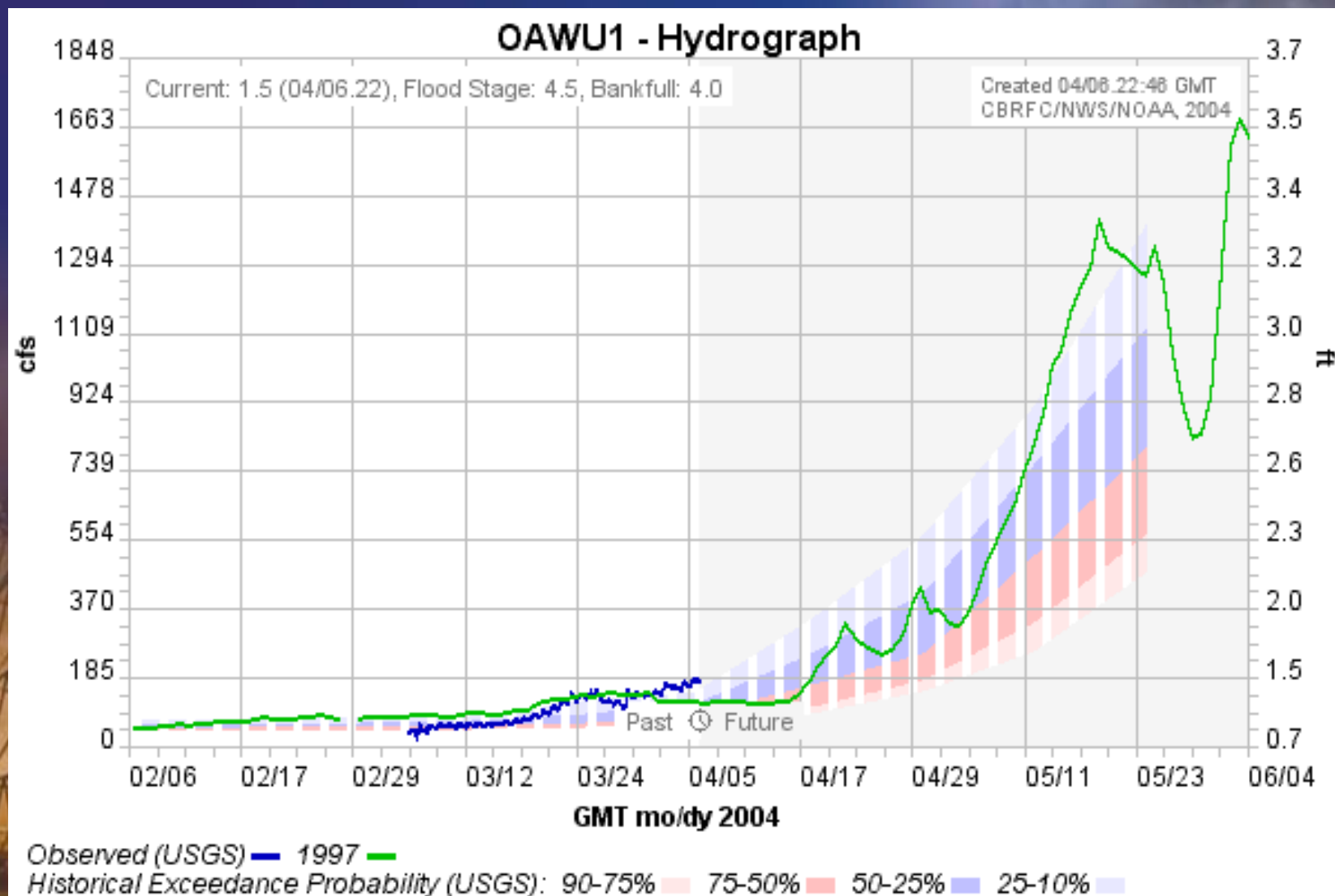


# Bear River near Utah Wyoming State Line

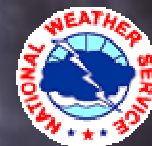




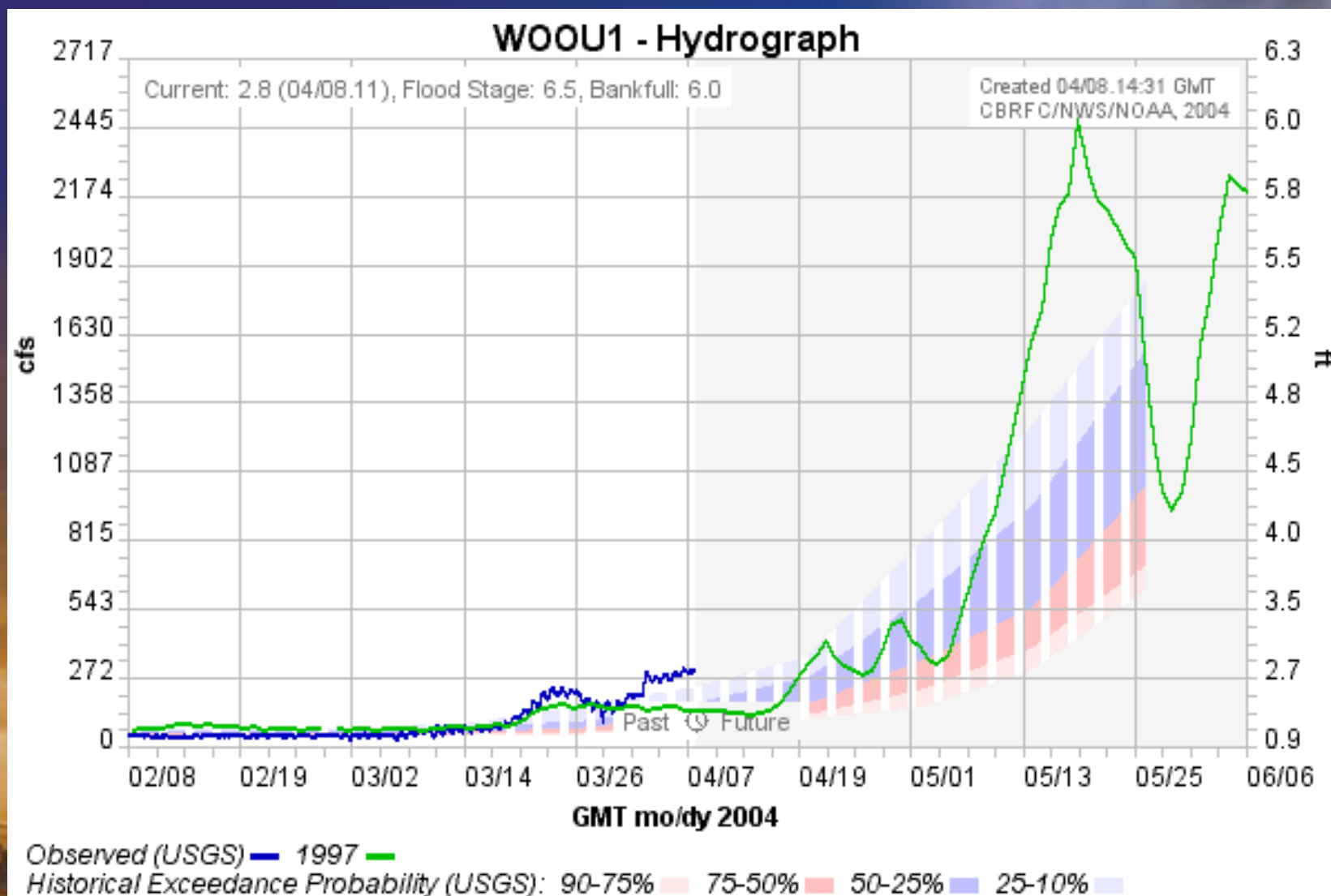
# Weber River near Oakley







# Provo near Woodland





# Hydrologic Outlook

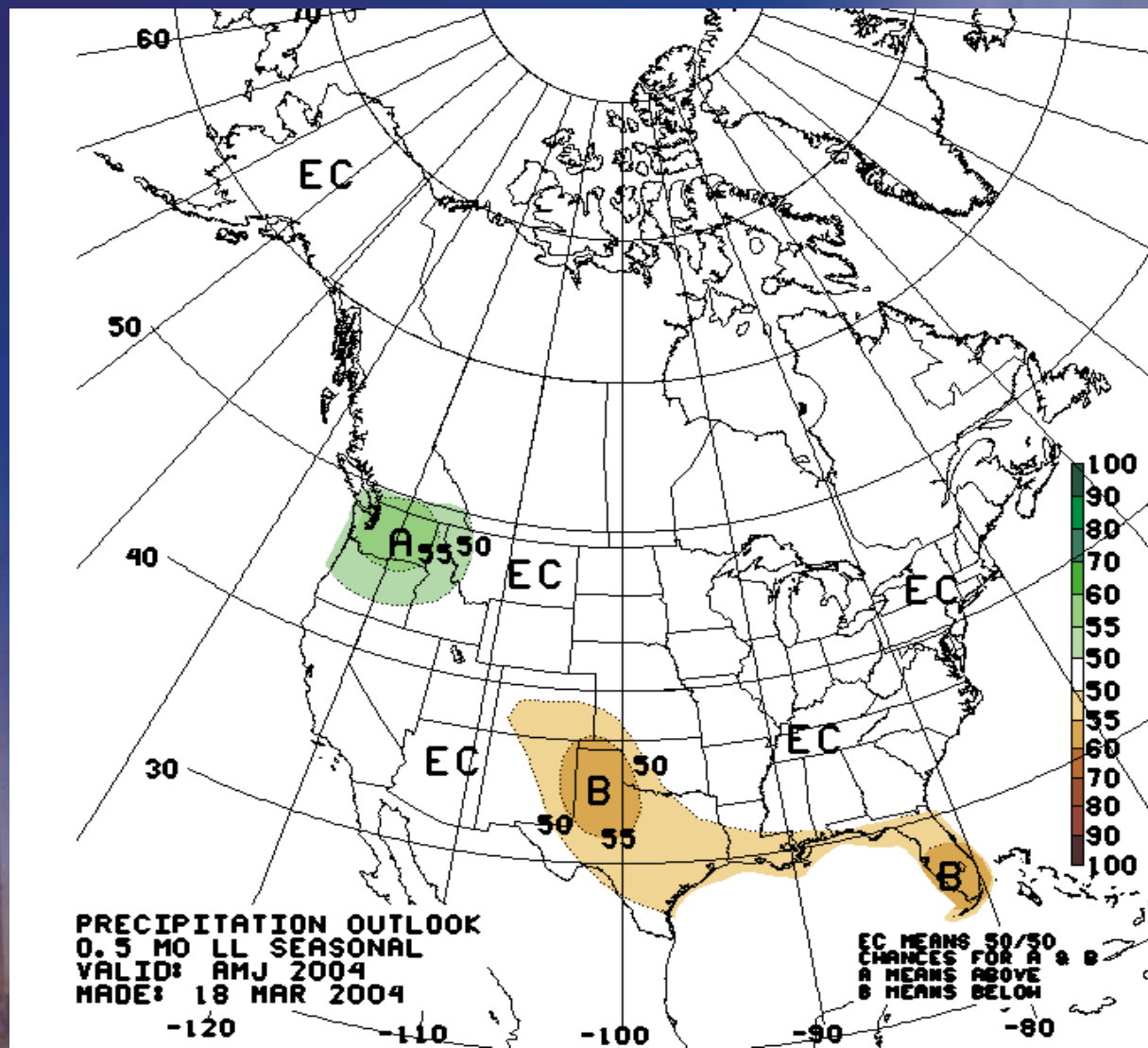
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- Long Range Forecast



# Long Range Precipitation Forecast

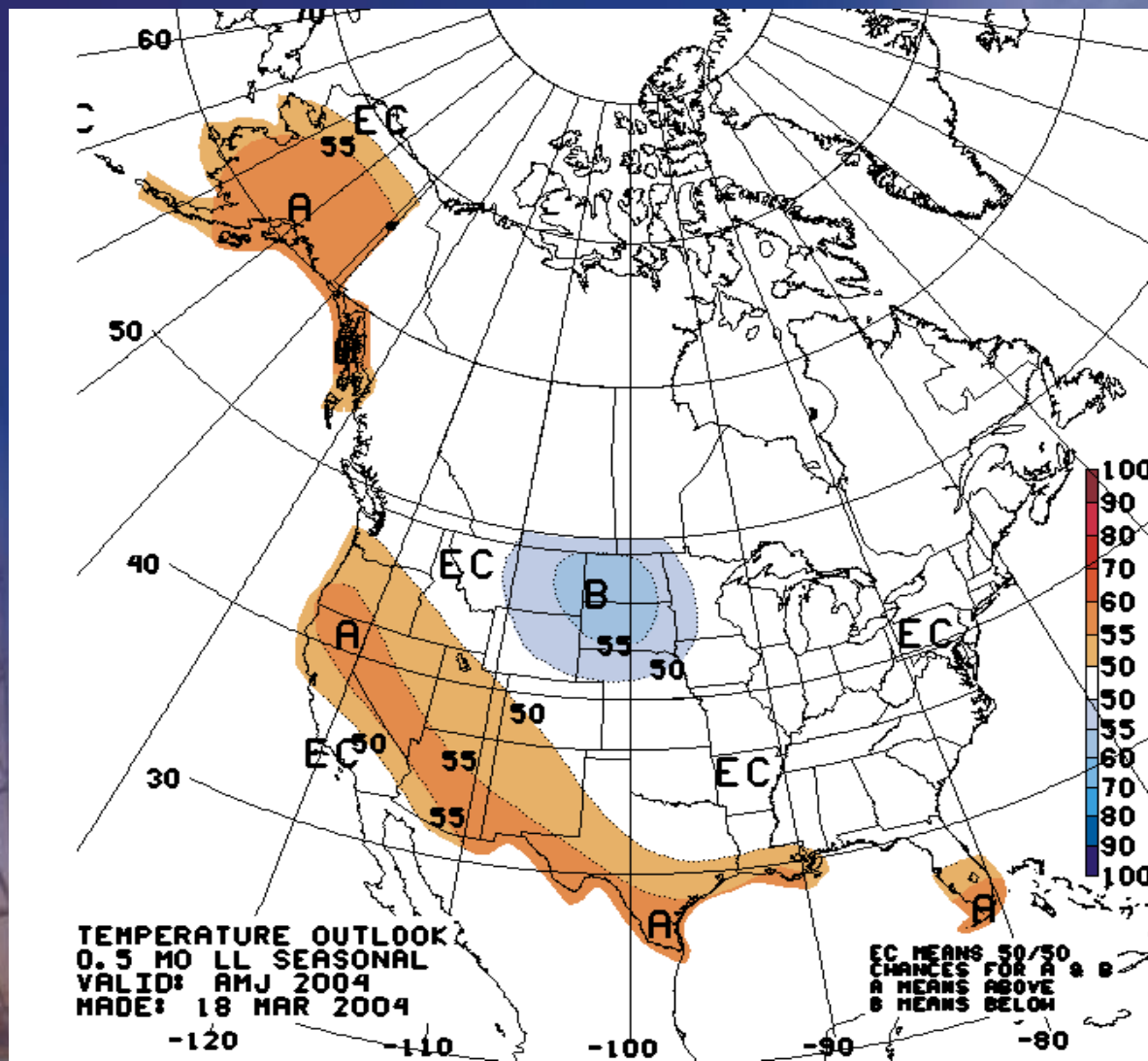
## April – May - June





# Long Range Temperature Forecast

## April – May - June





# Contact Information

<http://www.wrh.noaa.gov/Saltlake/river/presentations>

## Additional Information

### Contact

Brian McInerney  
Hydrologist  
National Weather Service  
801-524-4377 w  
801-971-2033 c

[brian.mcinerney@noaa.gov](mailto:brian.mcinerney@noaa.gov)